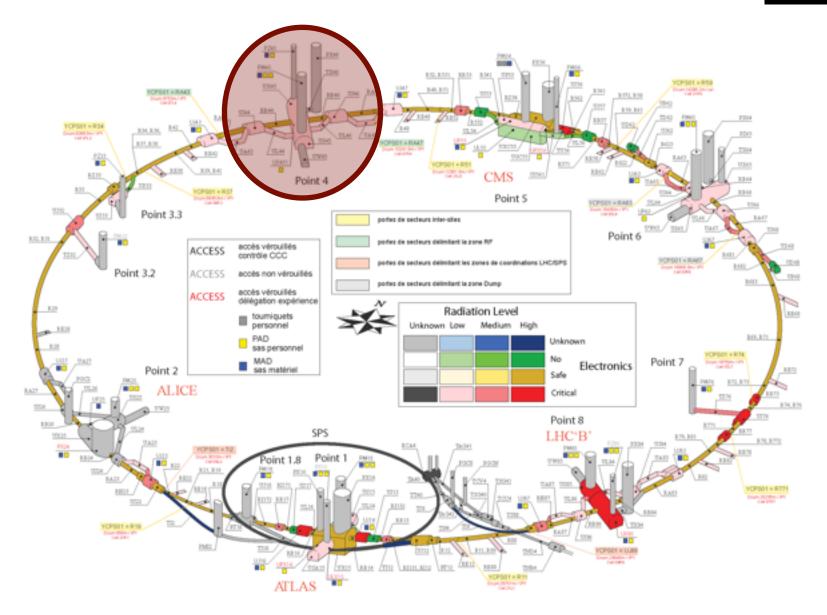
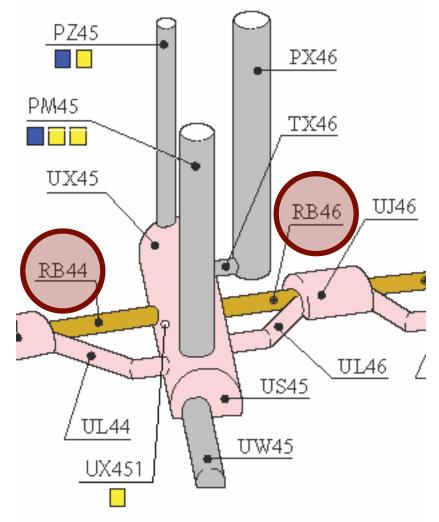
A possible location for the hollow electron lens at CERN: the RB 44 and RB 46 sections near IR4 in the LHC

Photographs taken during the tunnel access of 10 November 2011 with E. Bravin, V. Previtali, A. Rossi, and G. Stancari

LHC layout

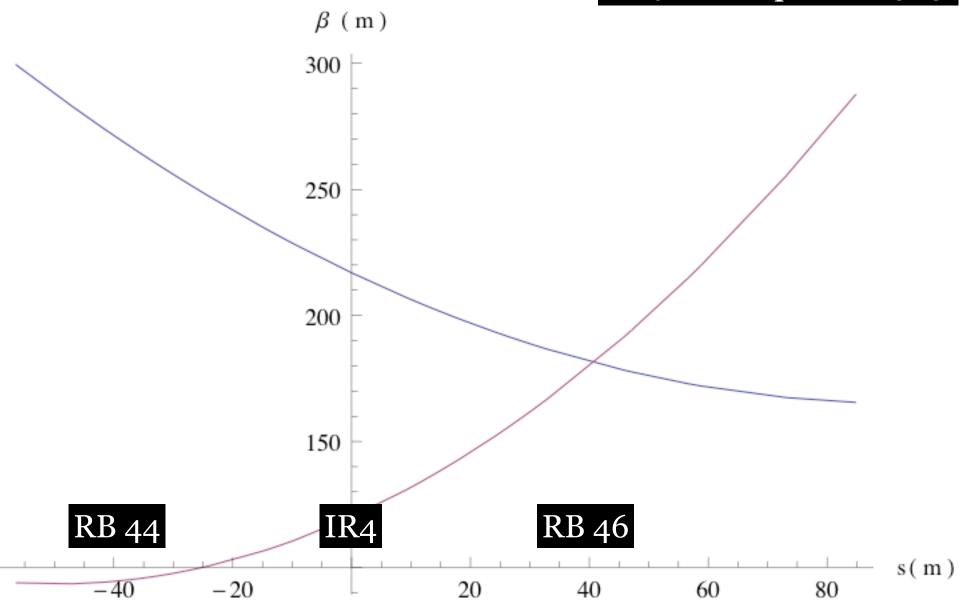


LHC IR4 detail

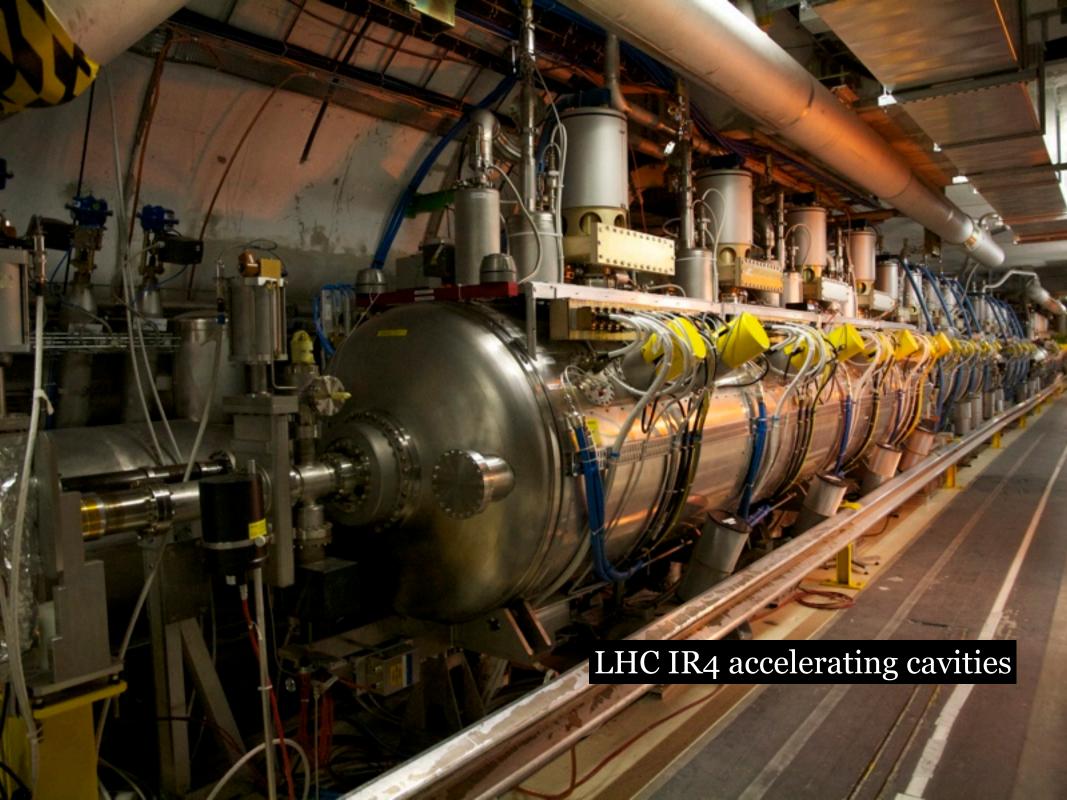


Point 4

IR4 beam optics v6.503



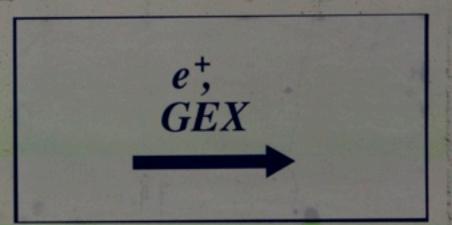






Legacy LEP definitions

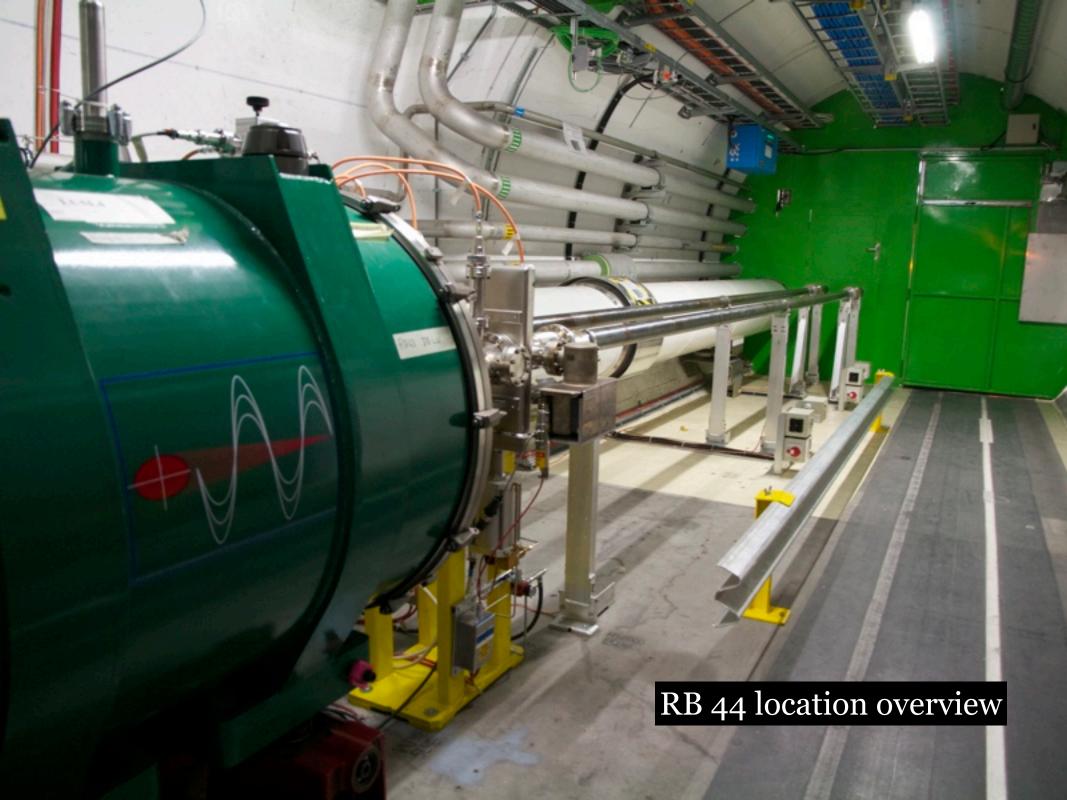


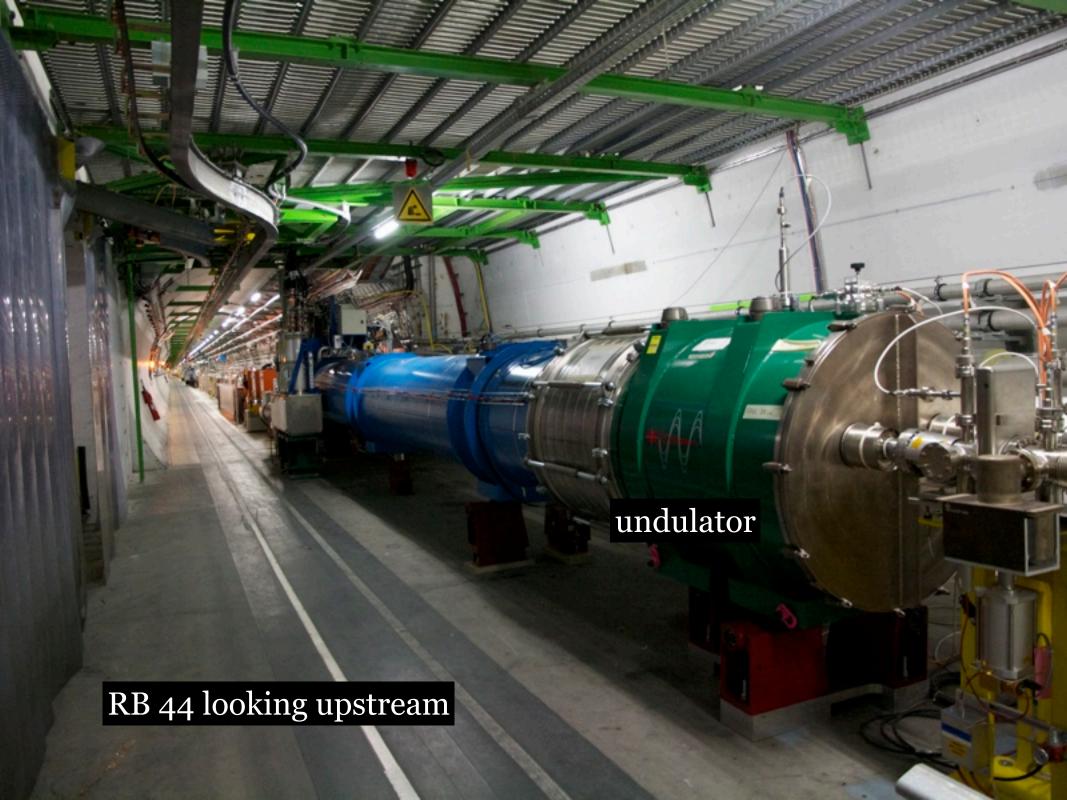


IMOU

BUILDING N°: OUNICH Territorial Safety Officer

RB 44 location, ~40 m left/upstream of IR4

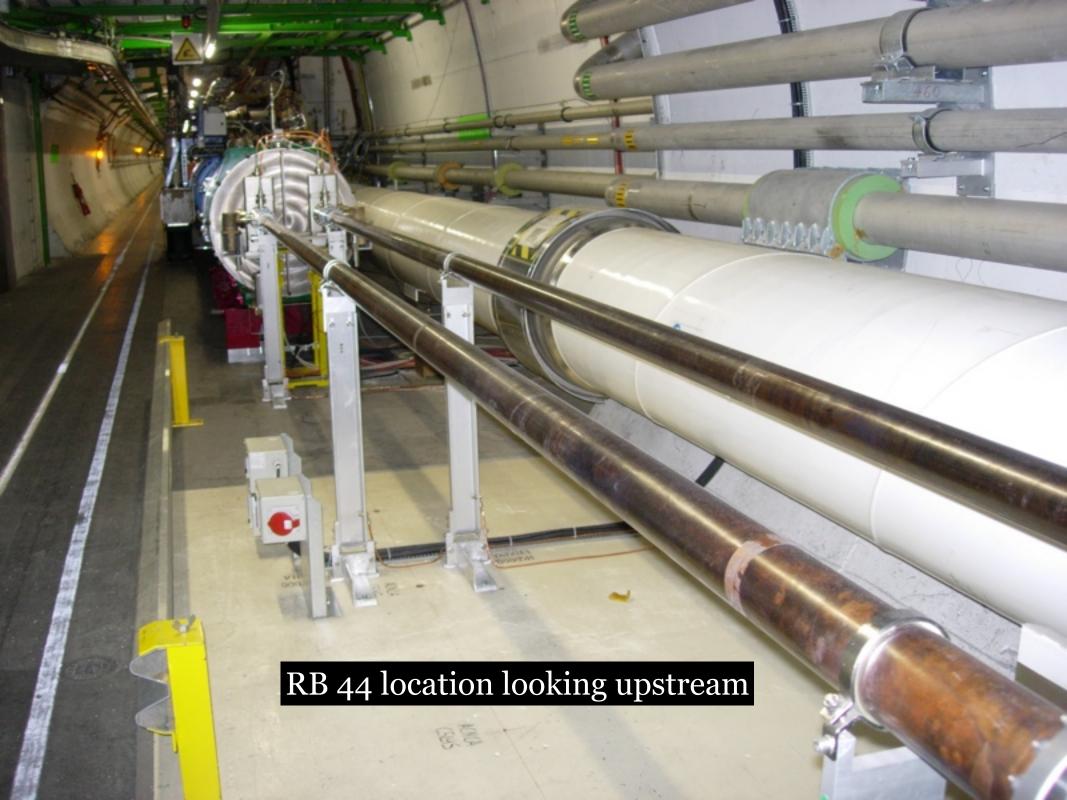




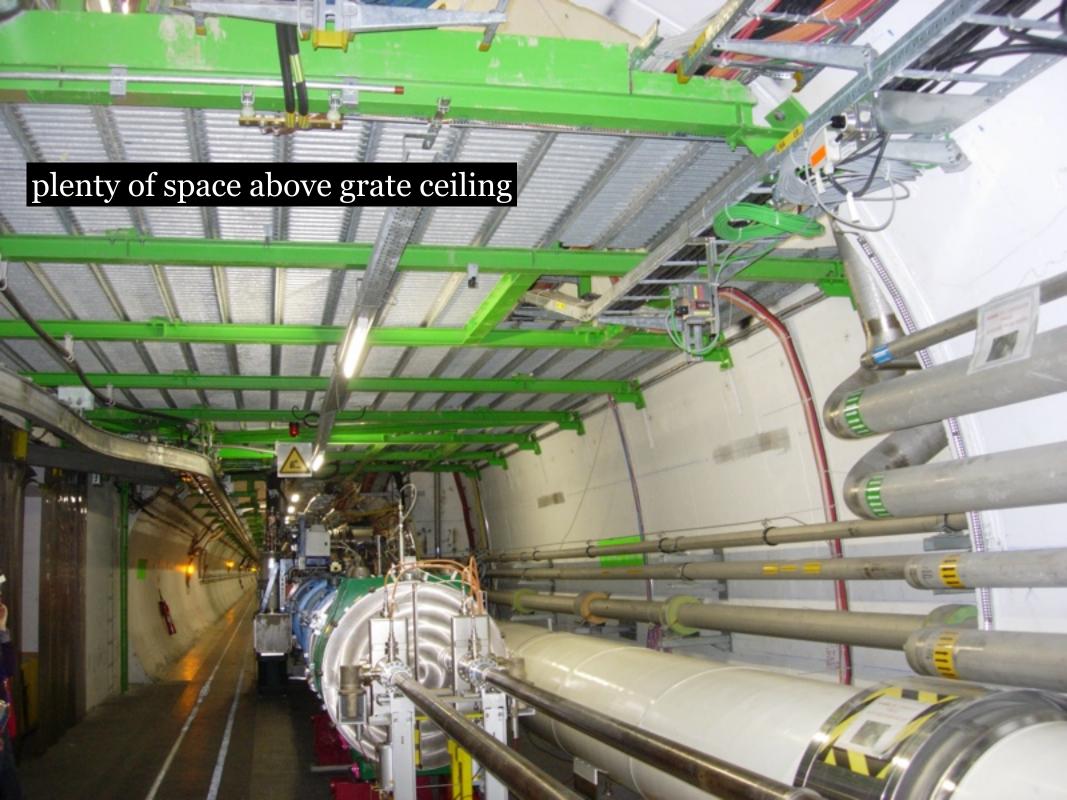








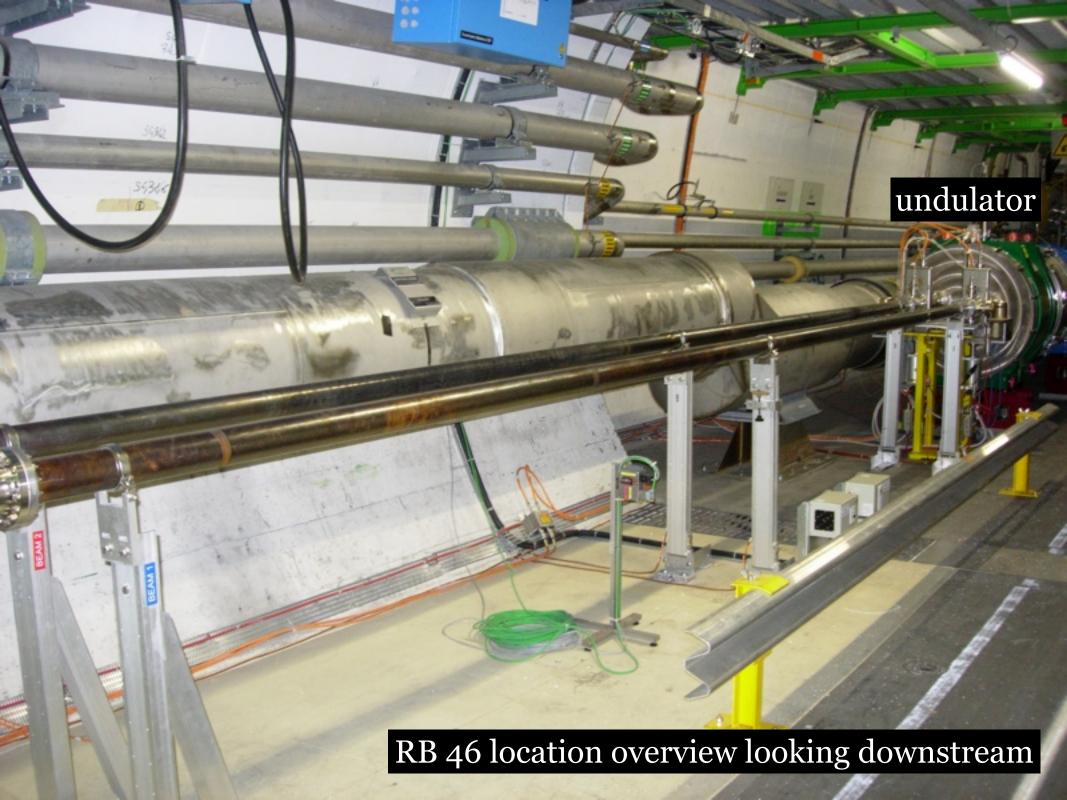




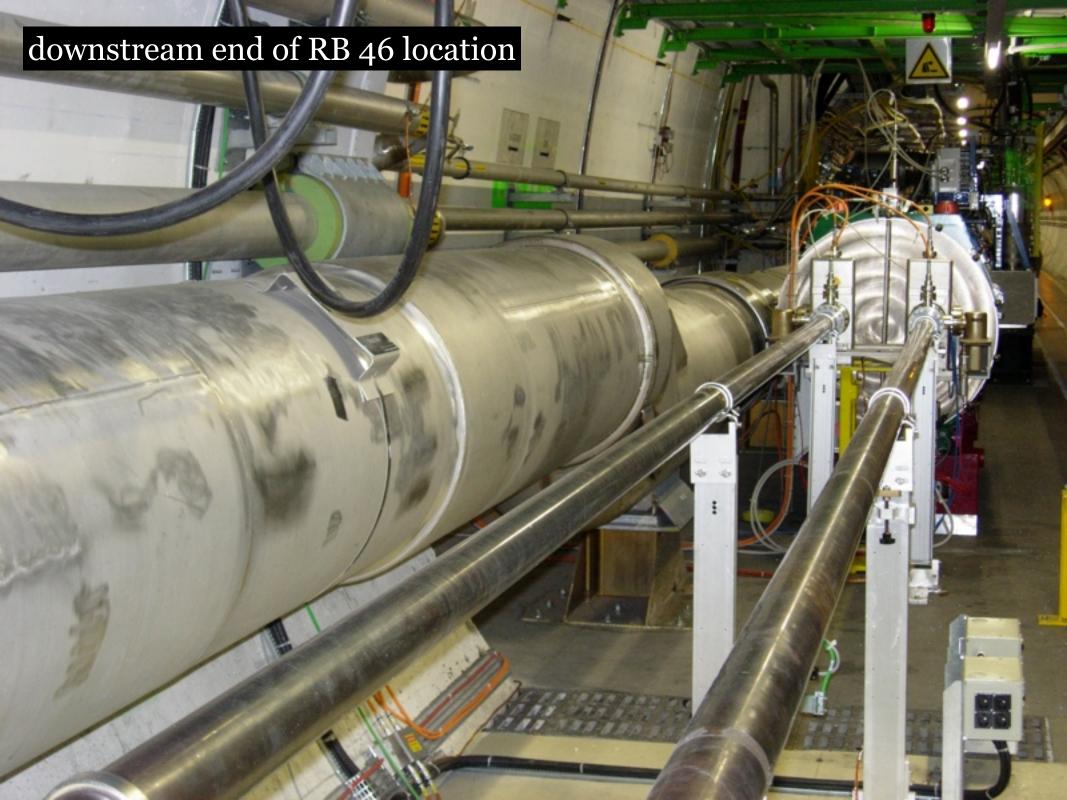


RB 46 location, ~40 m right/downstream of IR4













Comments:

- abundant space longitudinally and vertically
- very tight transverse space
- beam axis separation is 42 cm
- beam pipe height
- ▶ cryogenics available with substantial work
- ▶ technical contacts for integration (EN-MEF-INT): J.-P. Corso,
- Y. Muttoni